

Figure 1

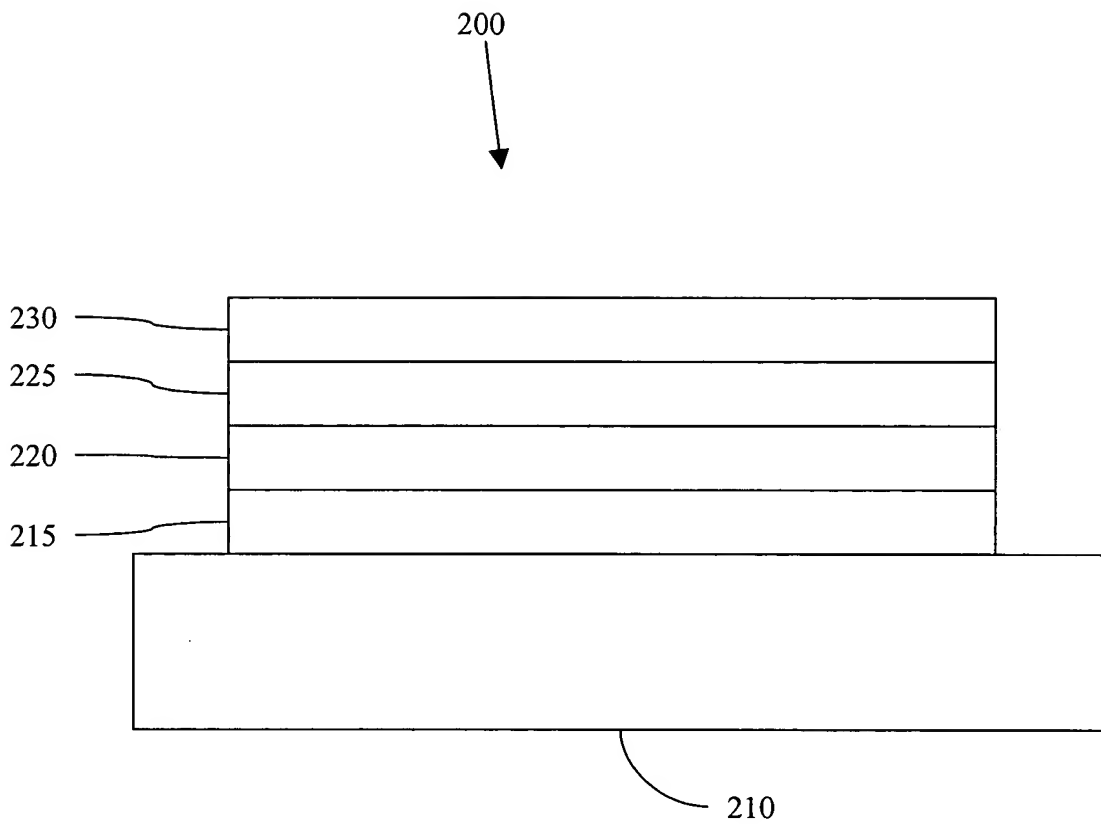


Figure 2

Figure 3

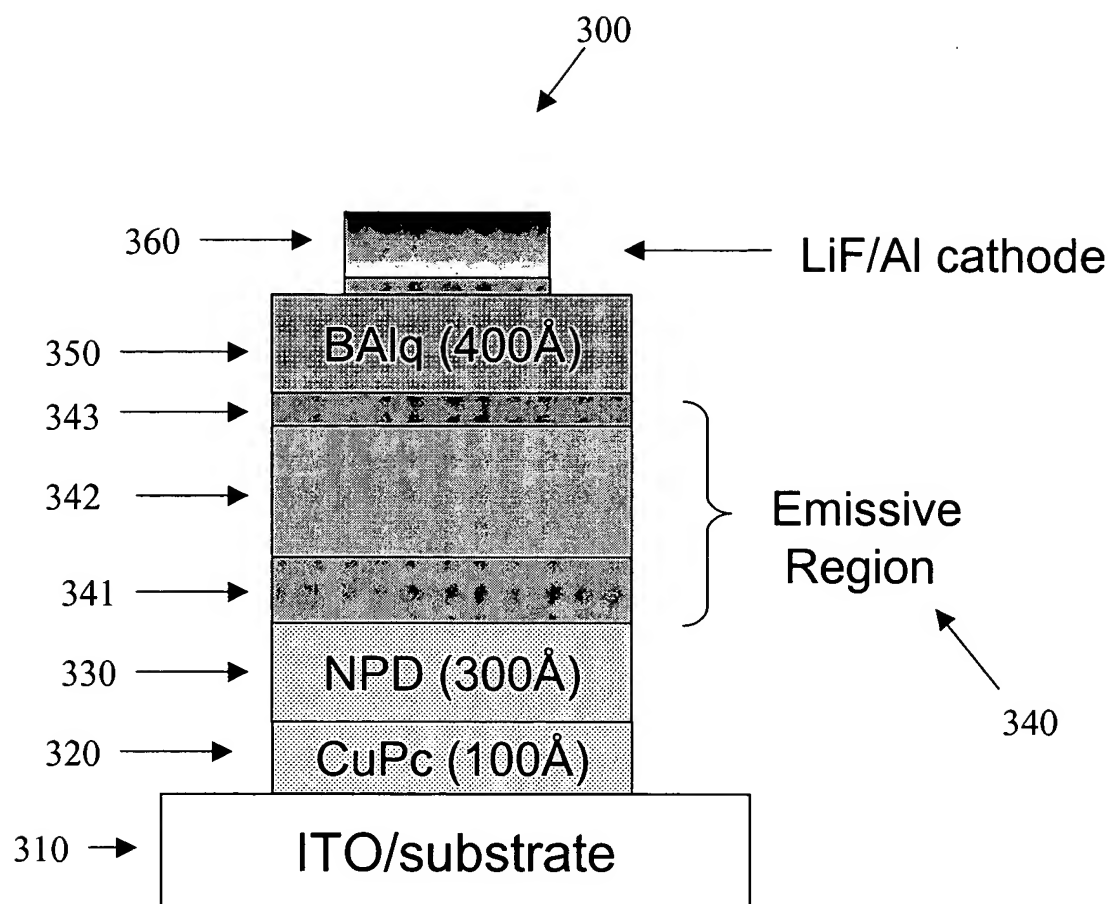


Figure 4

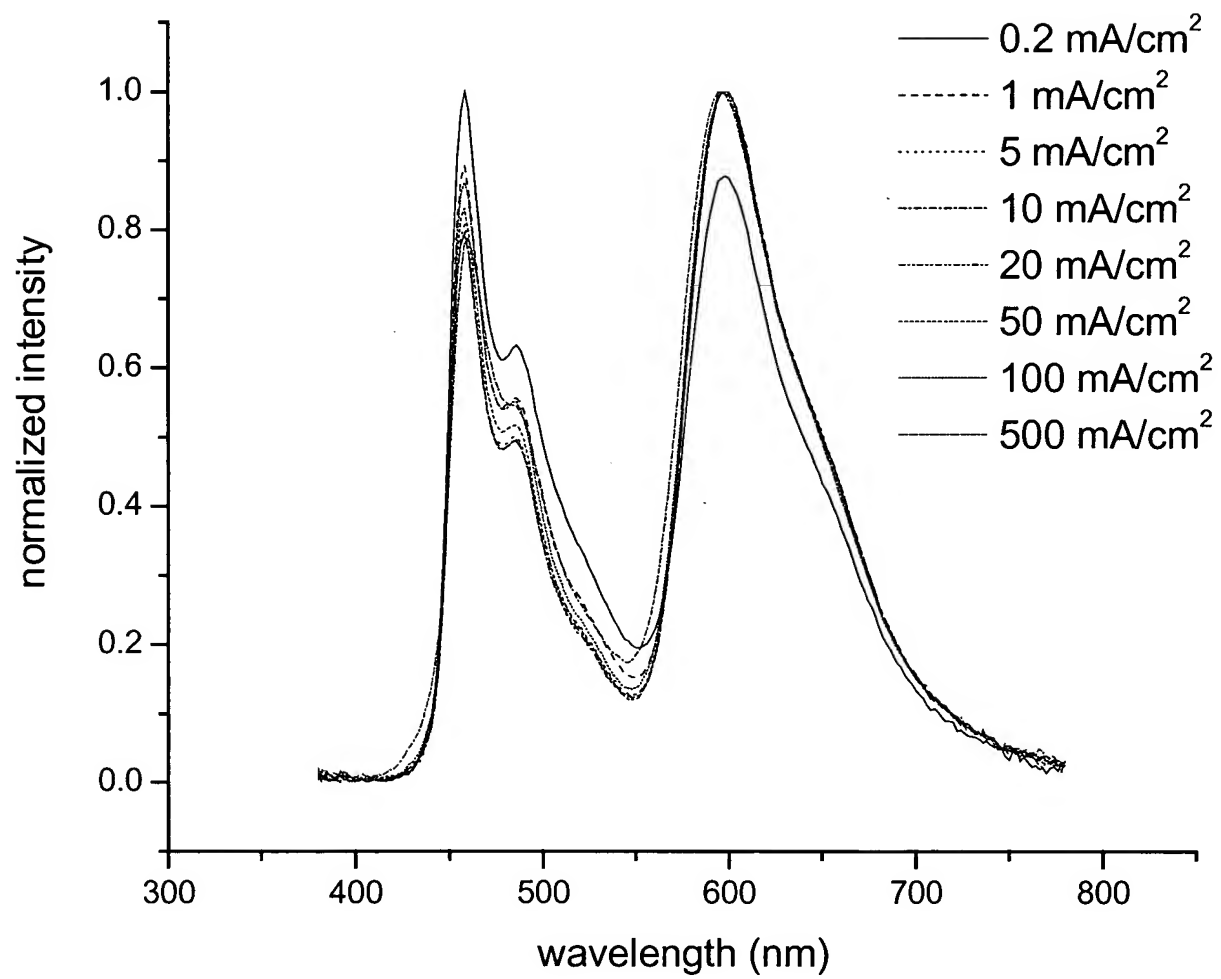


Figure 5

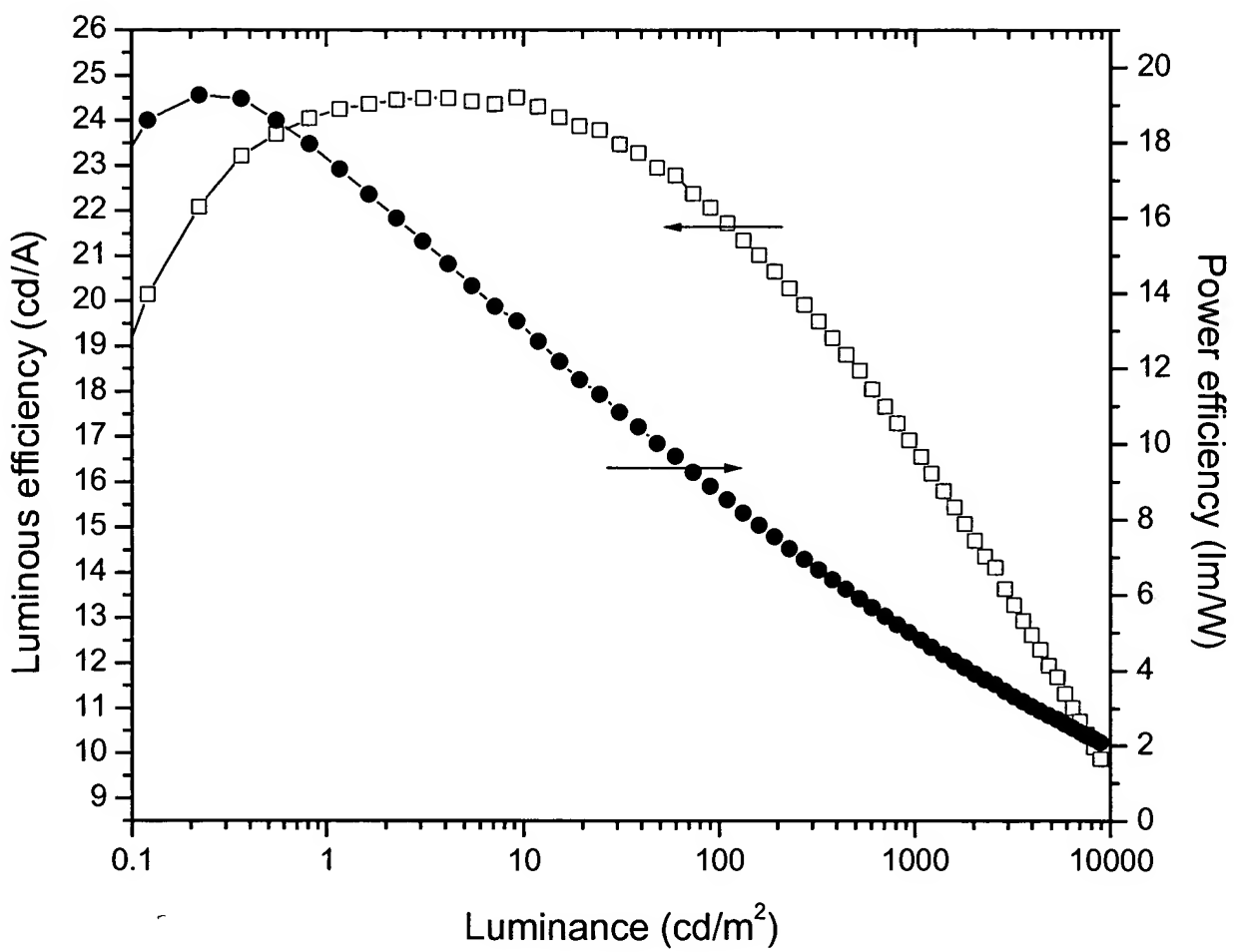


Figure 6

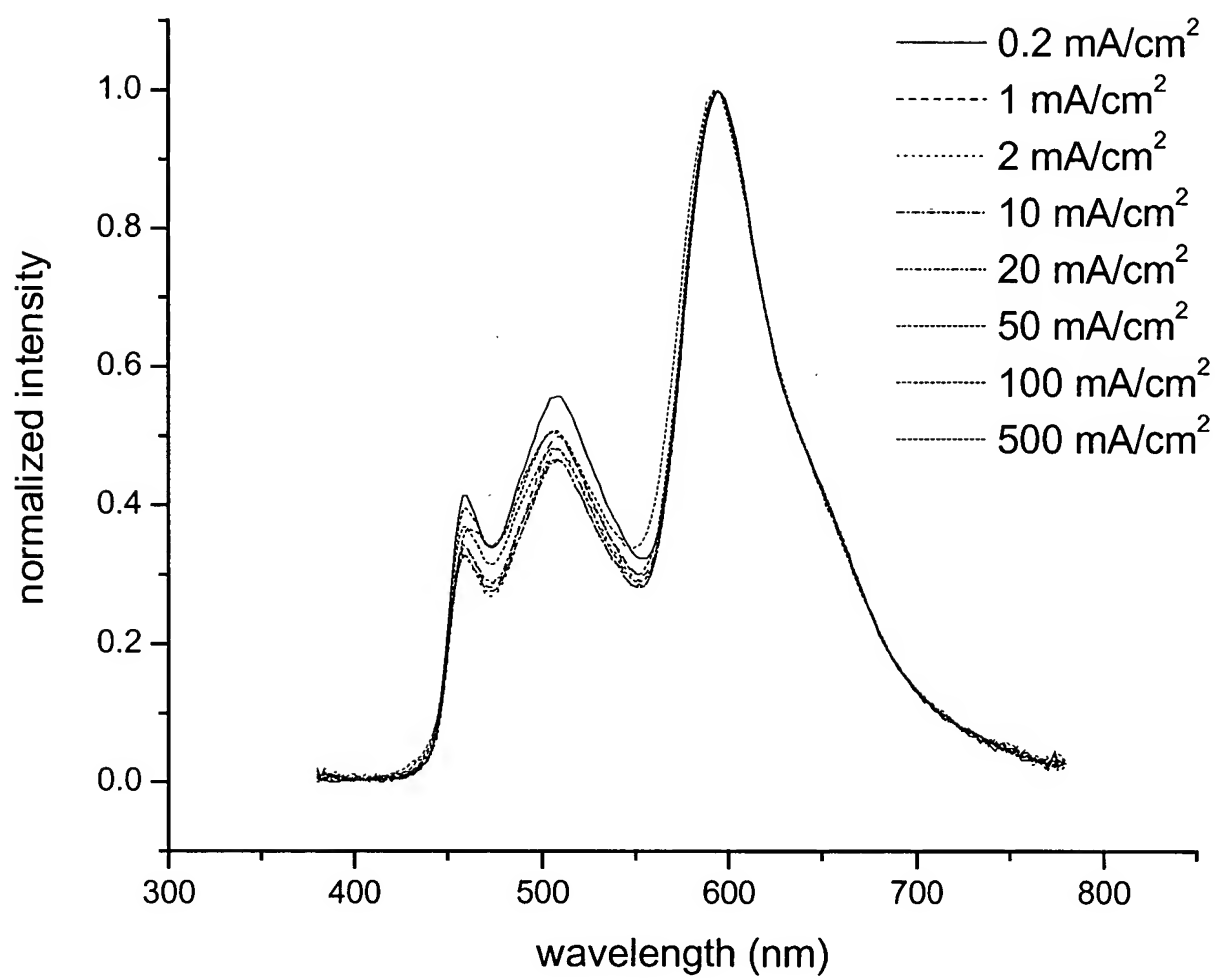


Figure 7

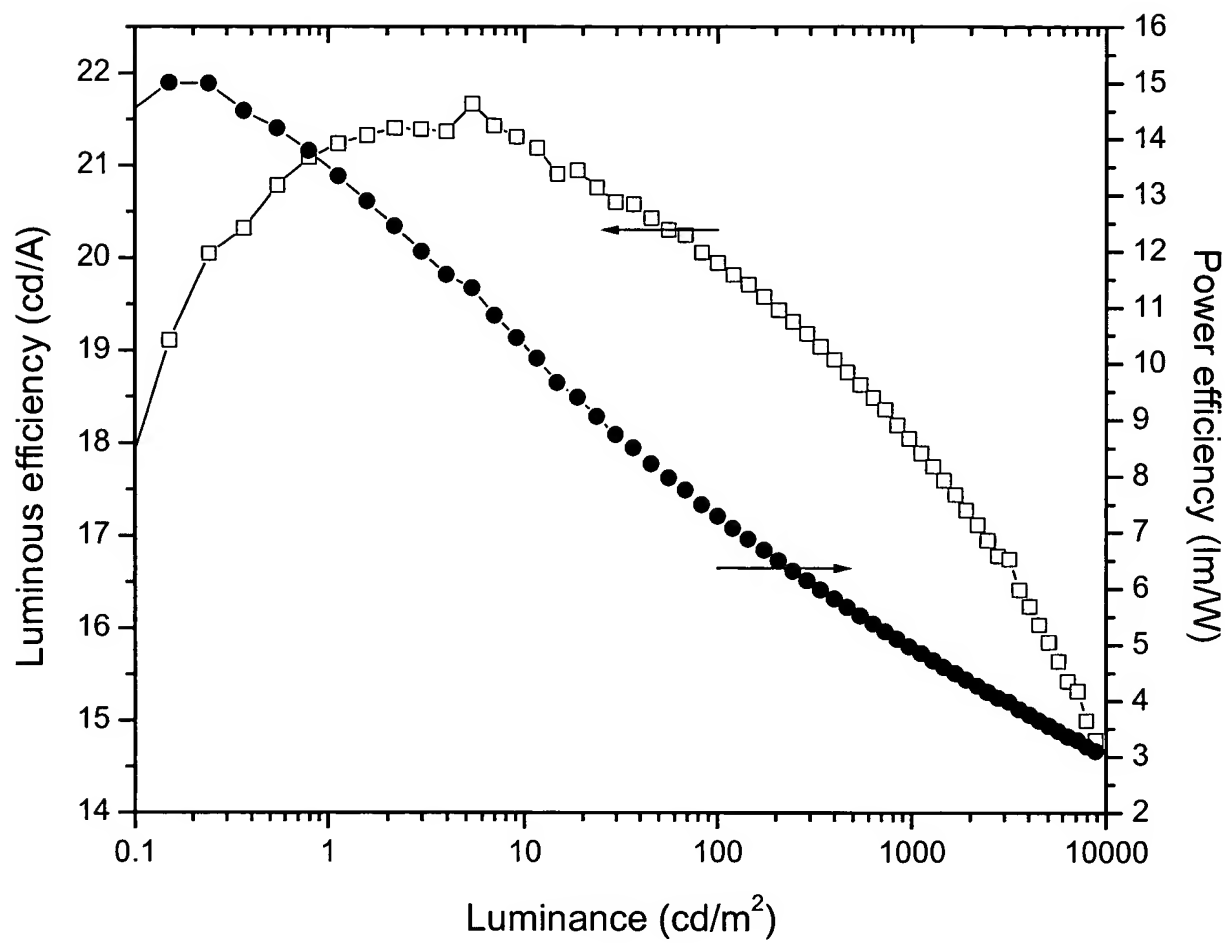


Figure 8

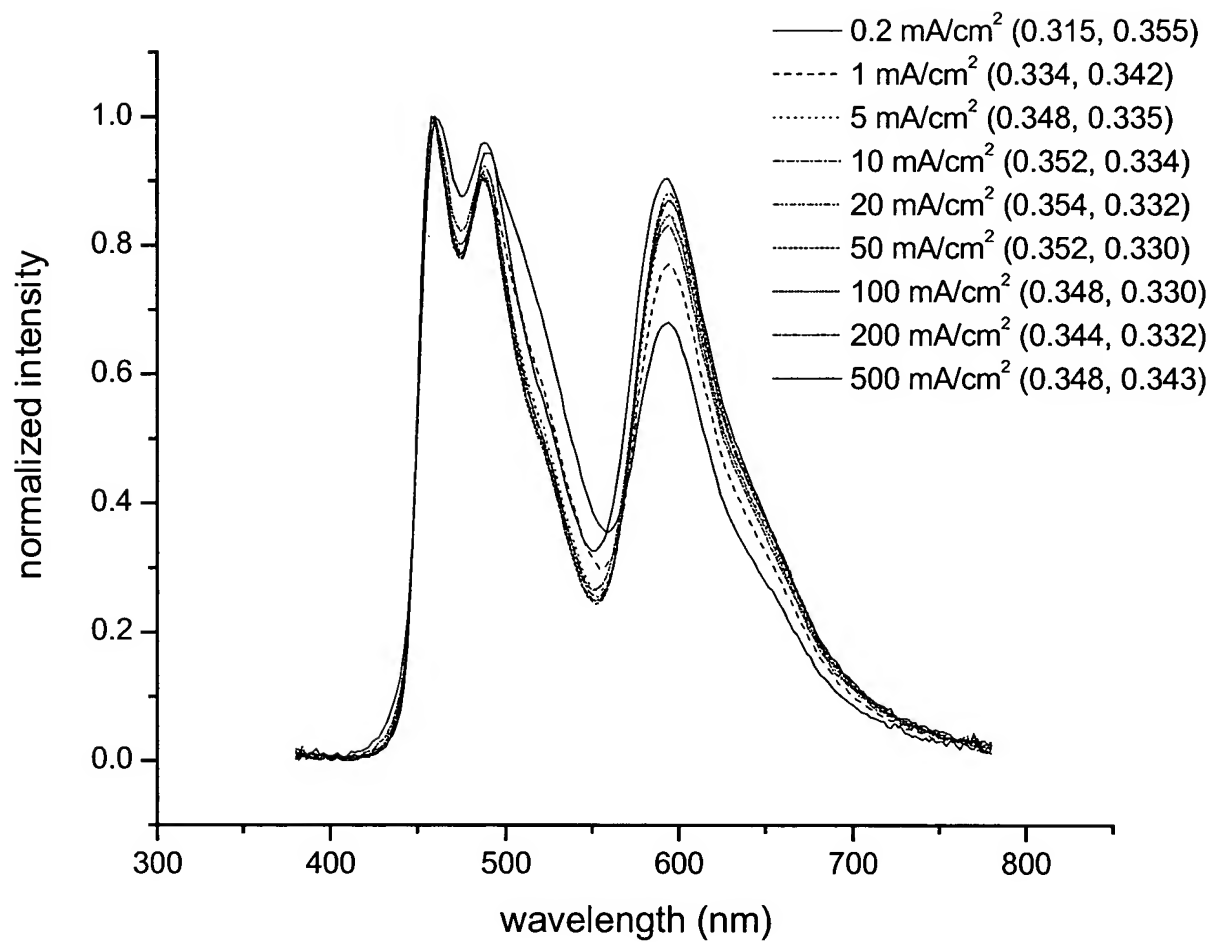


Figure 9

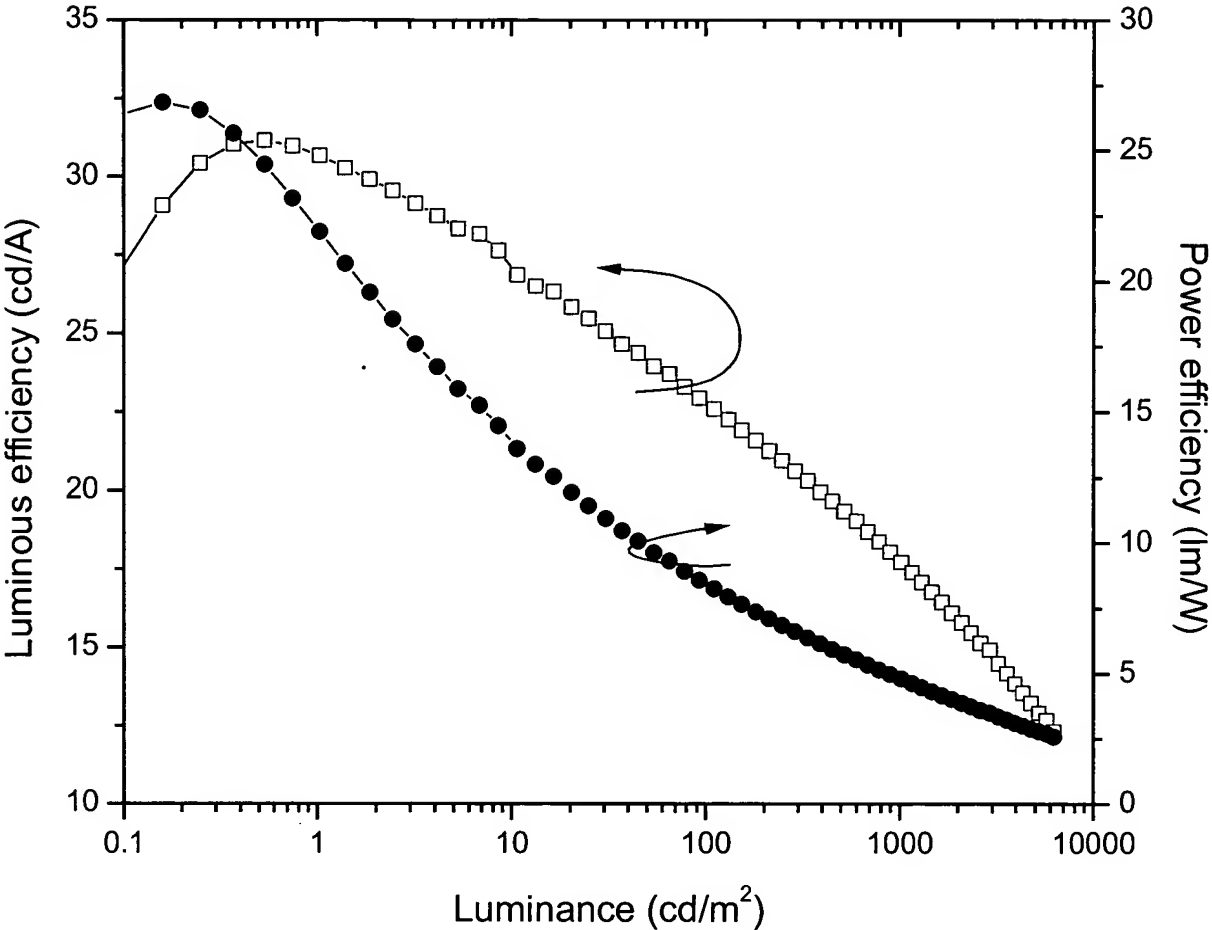


Figure 11

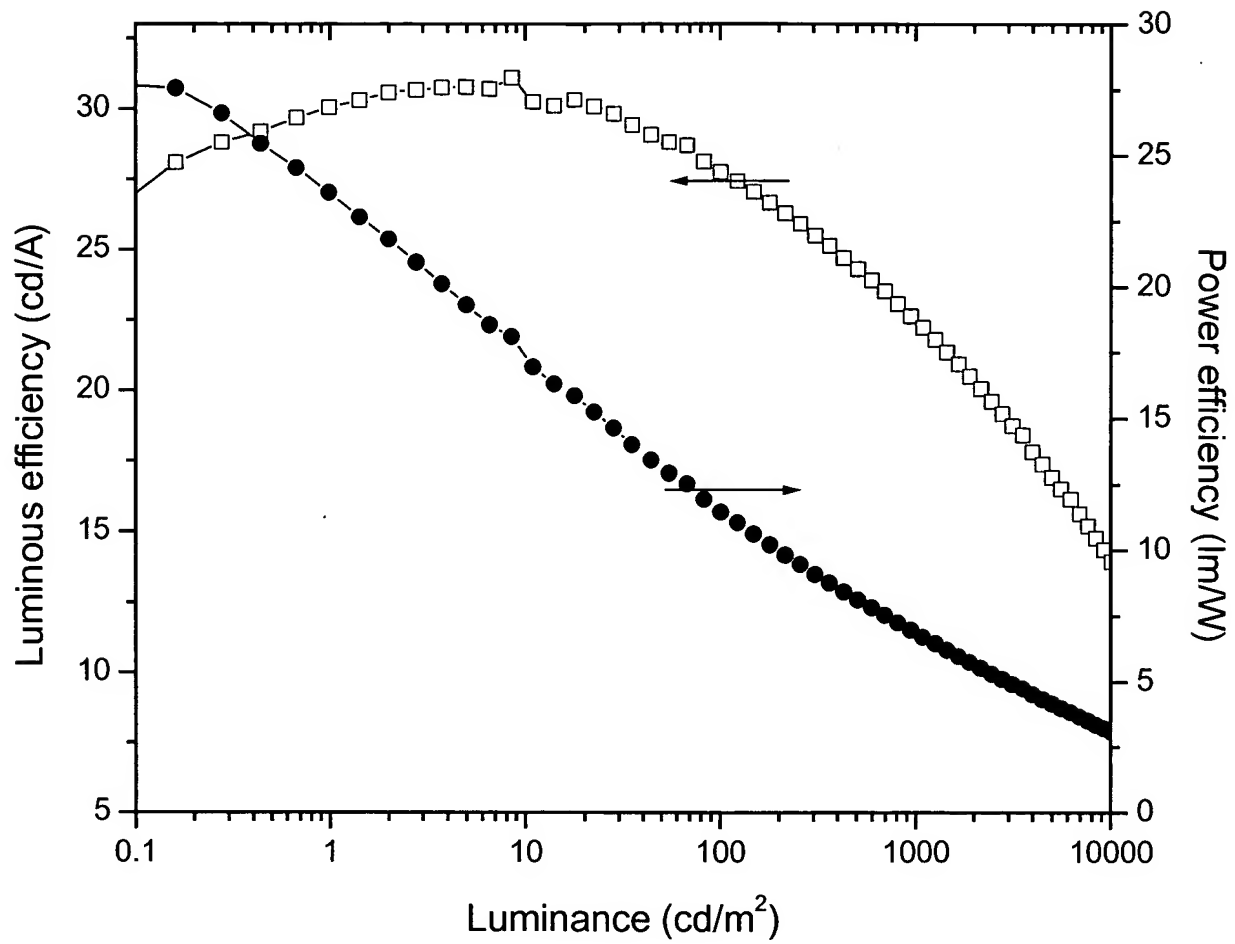


Figure 12

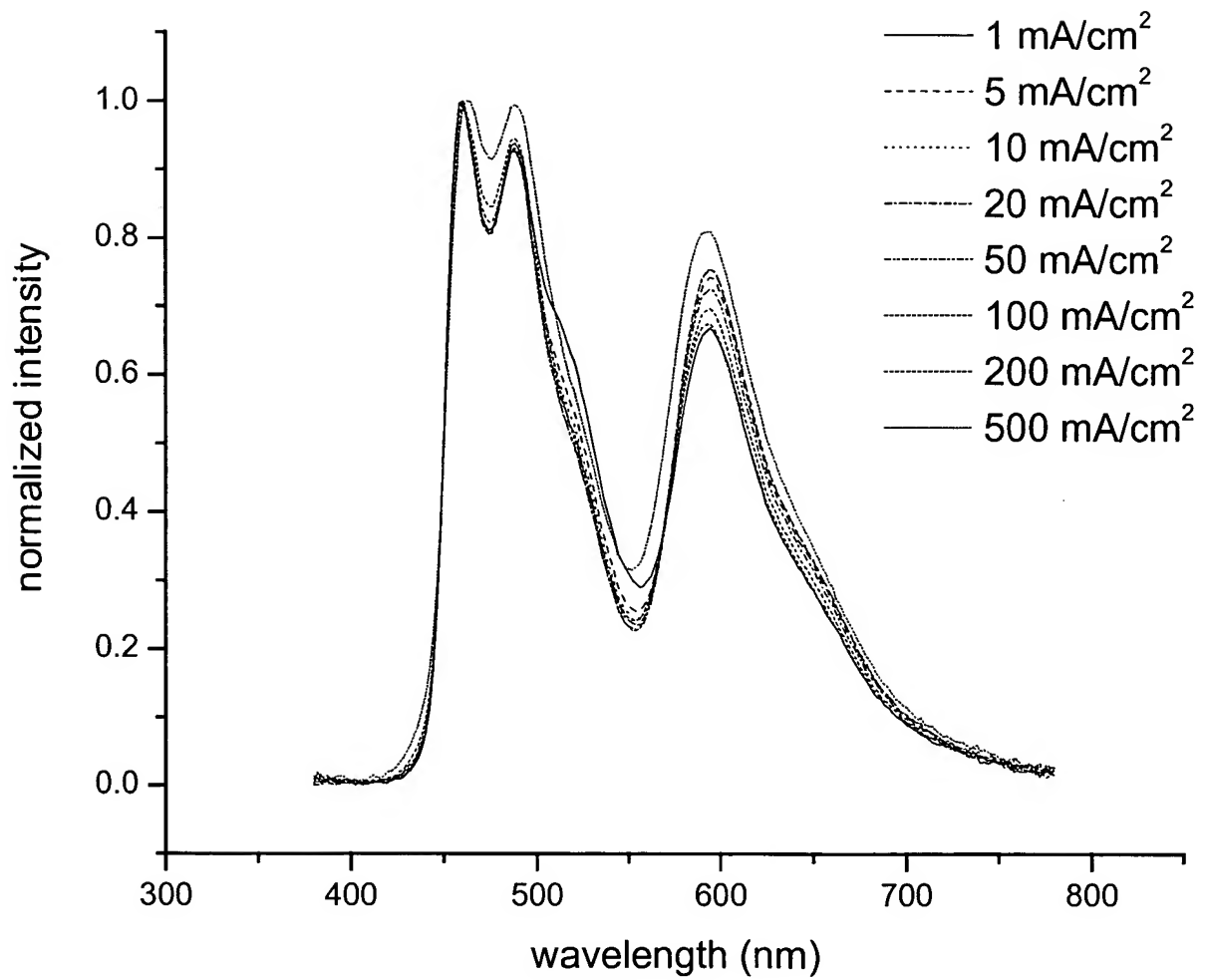


Figure 13

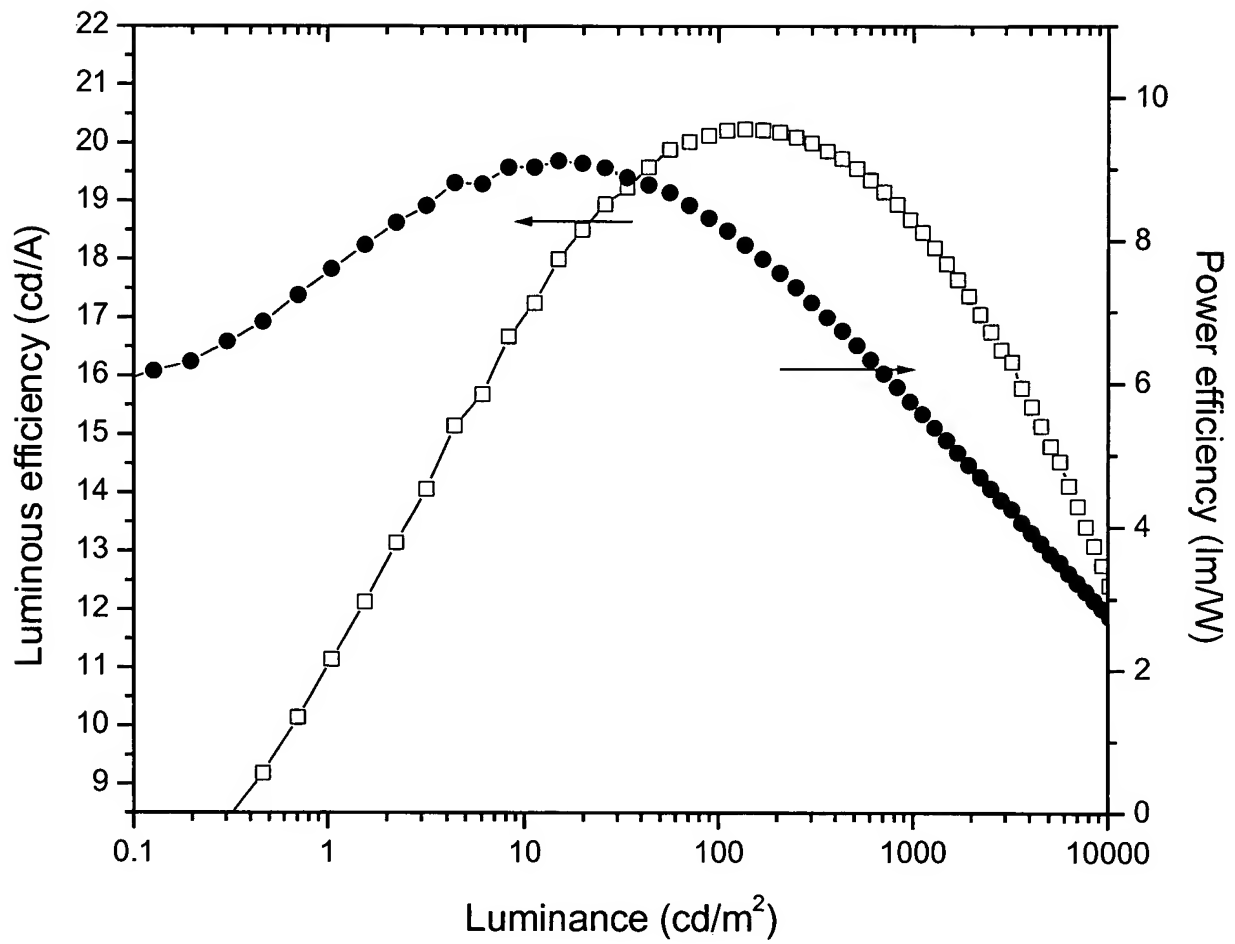


Figure 1 is a line graph showing the normalized photoluminescence (PL) intensity as a function of wavelength (nm) for ZnO nanorods. The x-axis ranges from 300 nm to 800 nm, and the y-axis ranges from 0.0 to 1.0. Eight curves are plotted, corresponding to different excitation intensities: 1 mA/cm² (solid line), 5 mA/cm² (dashed line), 10 mA/cm² (dotted line), 20 mA/cm² (dash-dot line), 50 mA/cm² (long-dashed line), 100 mA/cm² (short-dashed line), 200 mA/cm² (solid line with dots), and 500 mA/cm² (solid line with crosses). The curves exhibit a broad emission band with several peaks. The most prominent peaks are observed around 470 nm, 490 nm, and 590 nm. The intensity of these peaks increases with increasing excitation intensity. The 590 nm peak becomes increasingly prominent at higher intensities, while the 470 nm and 490 nm peaks show a more complex behavior, with the 490 nm peak generally being the most intense at lower intensities.

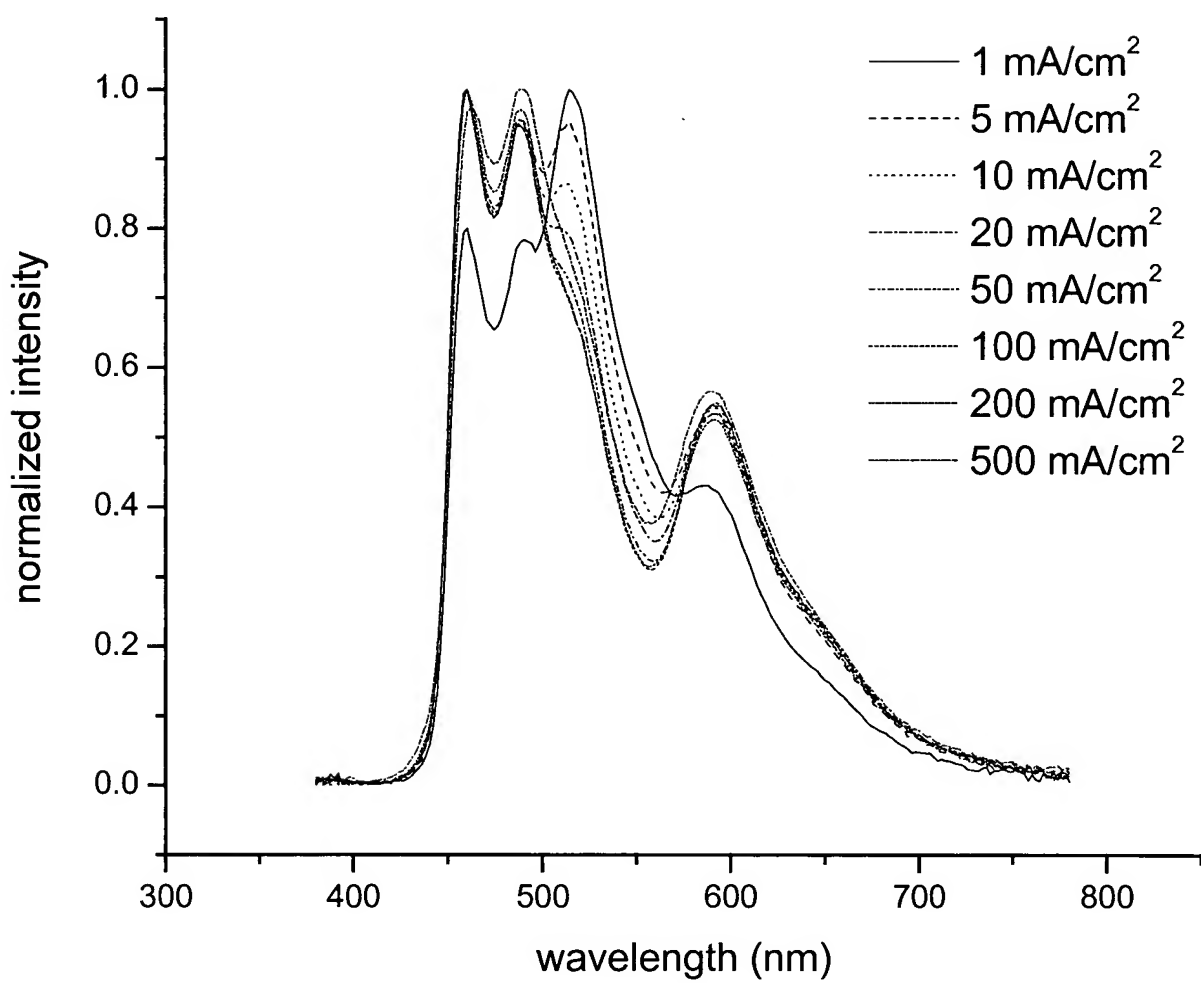
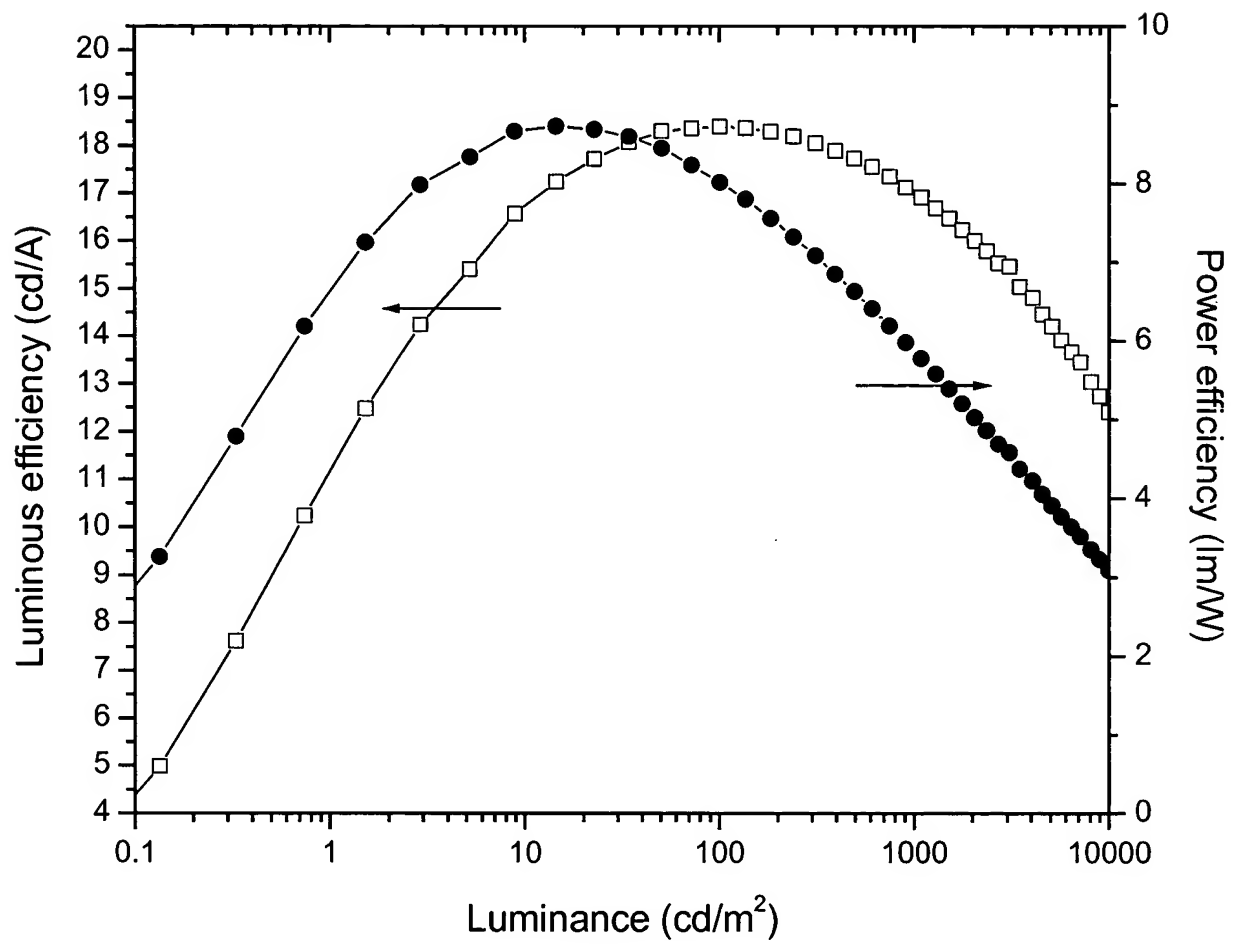


Figure 15



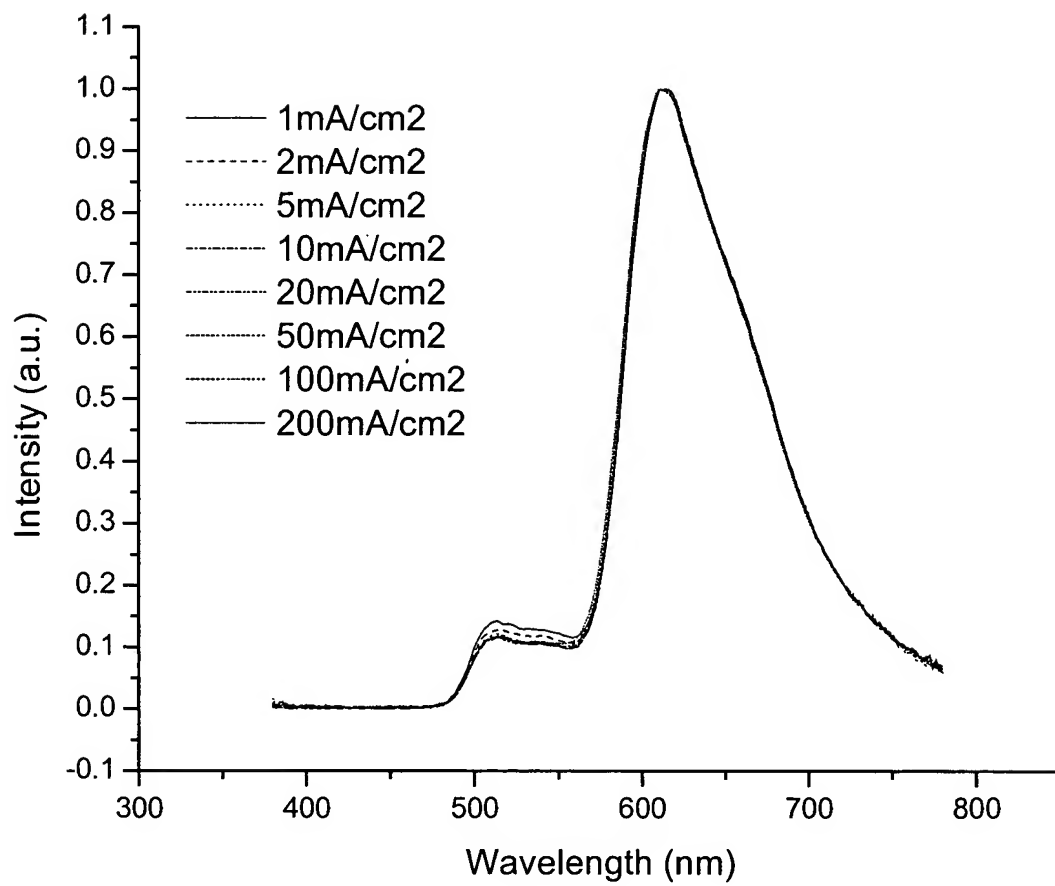


Figure 17

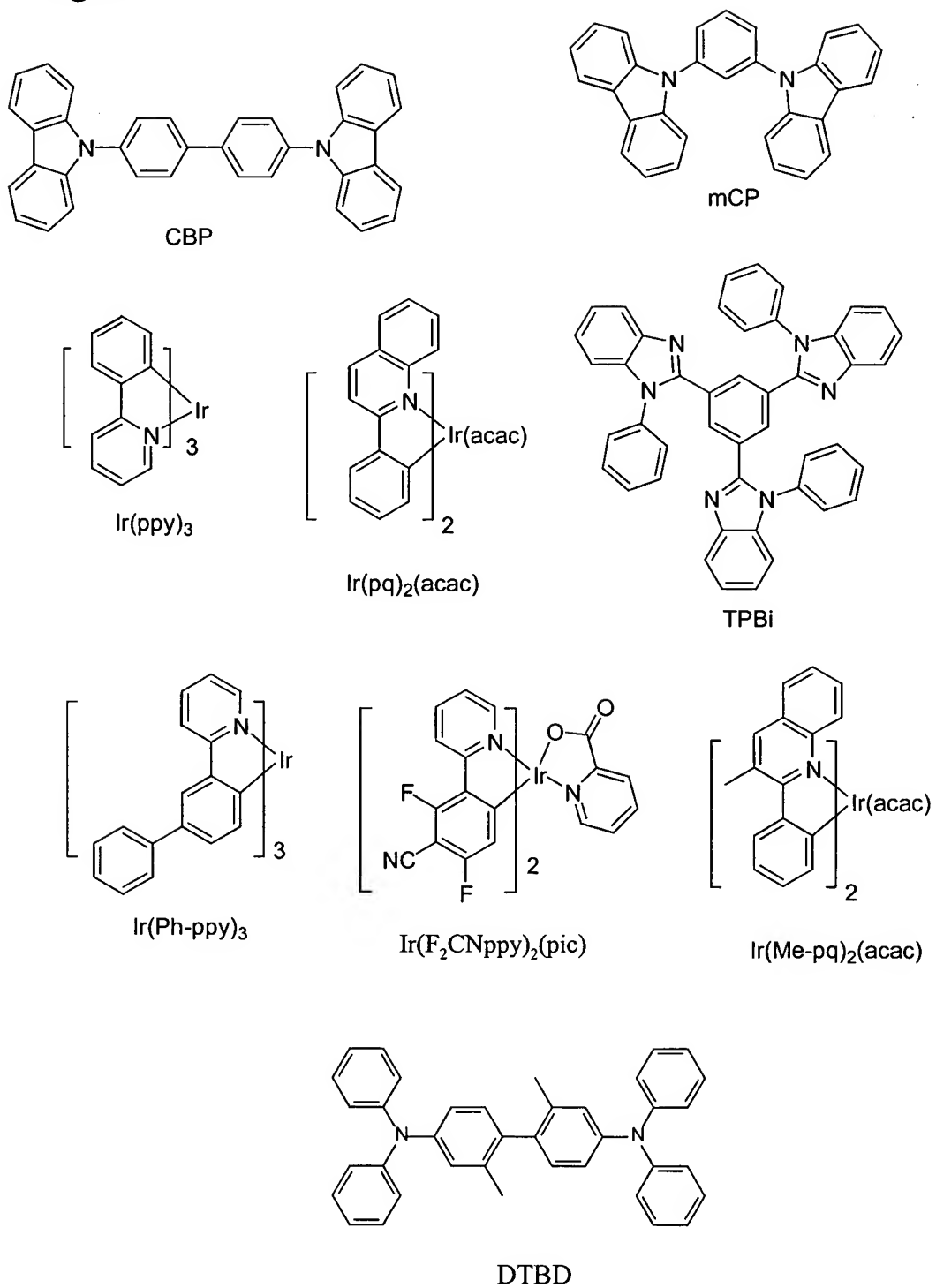


Figure 18

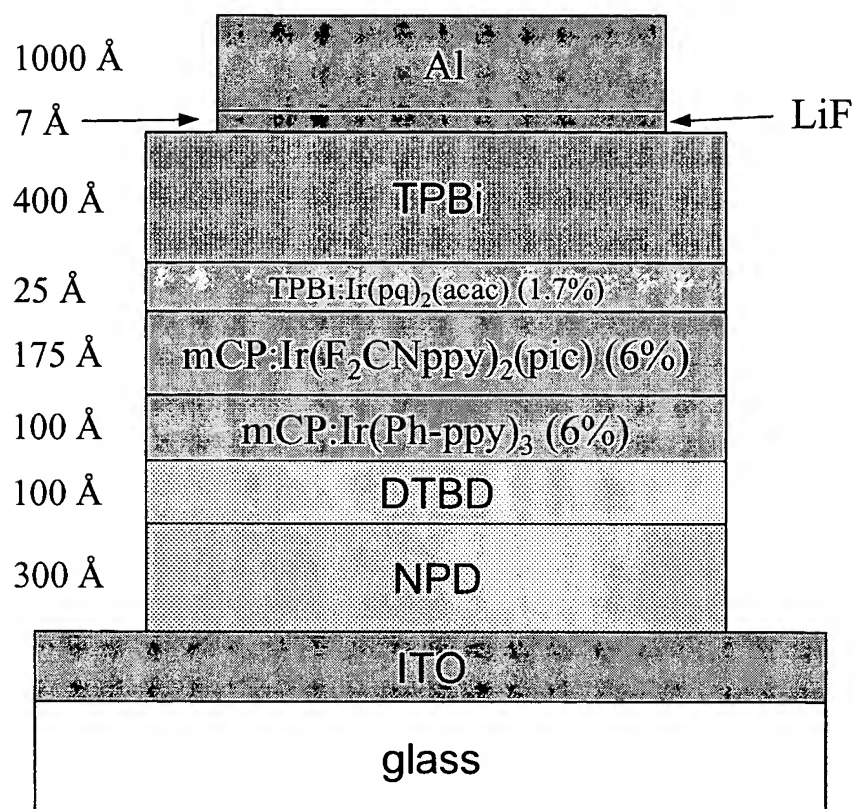


Figure 19

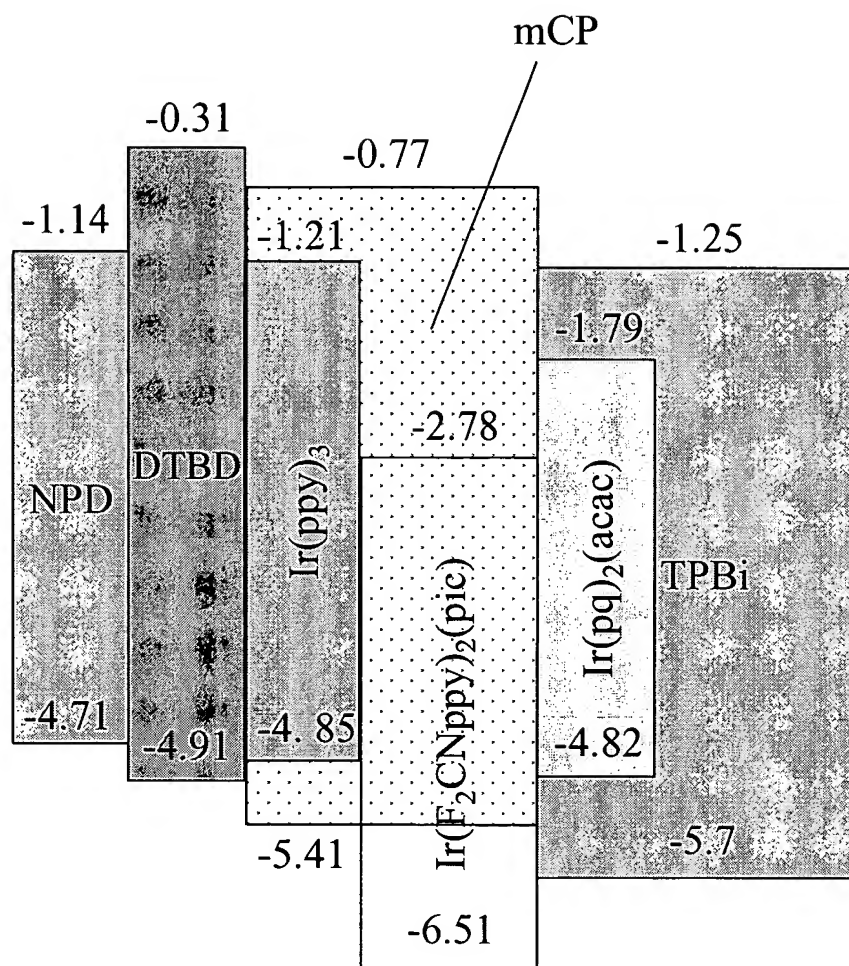


Figure 20

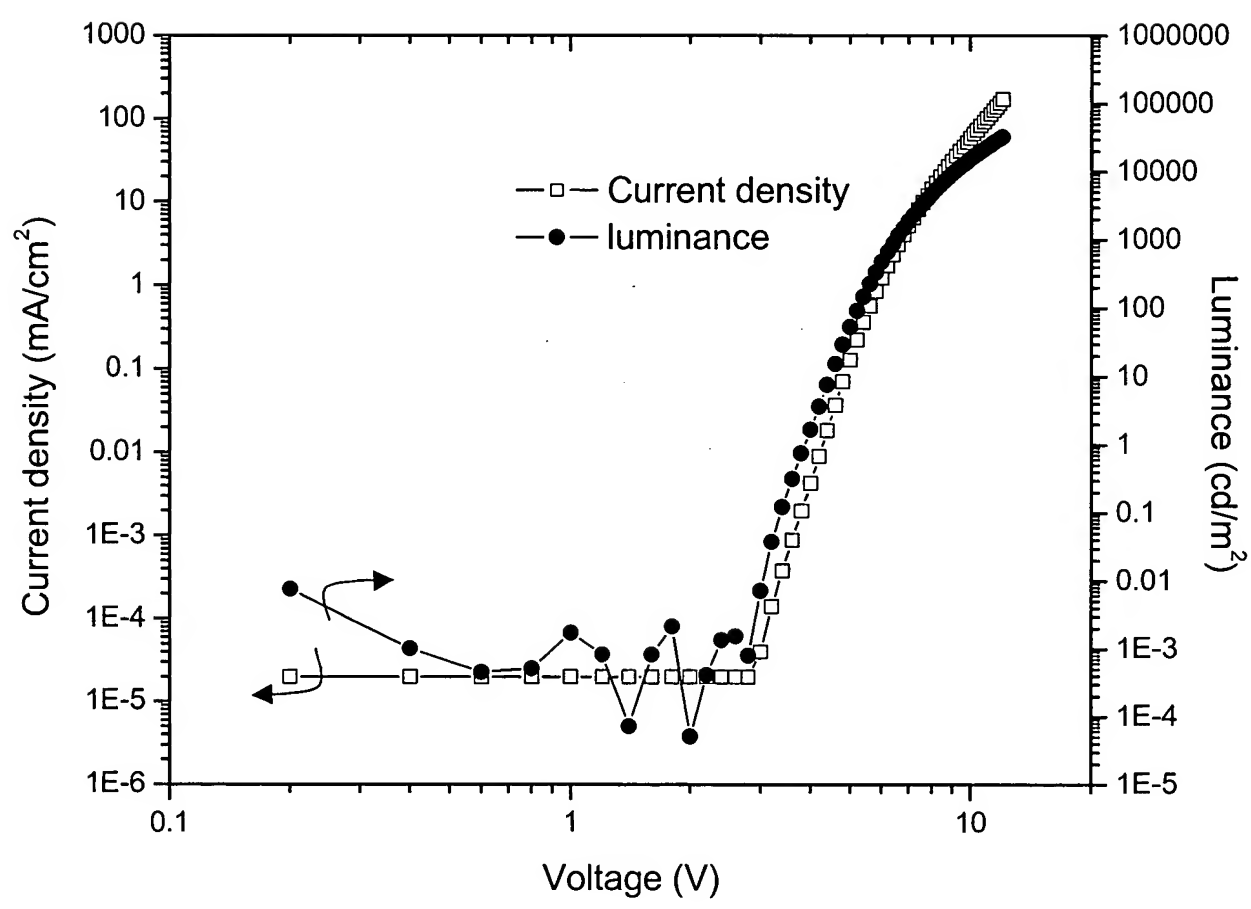


Figure 21

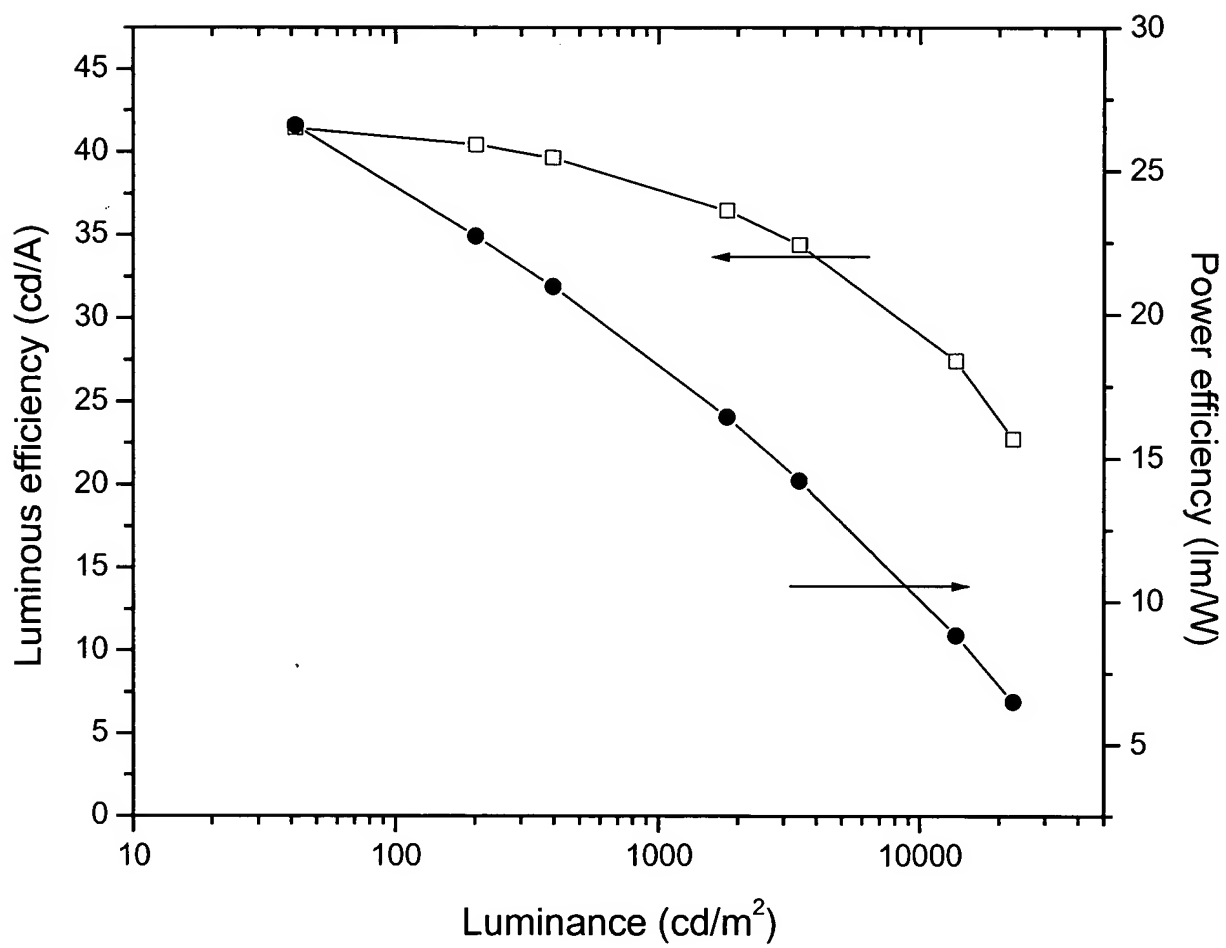


Figure 22

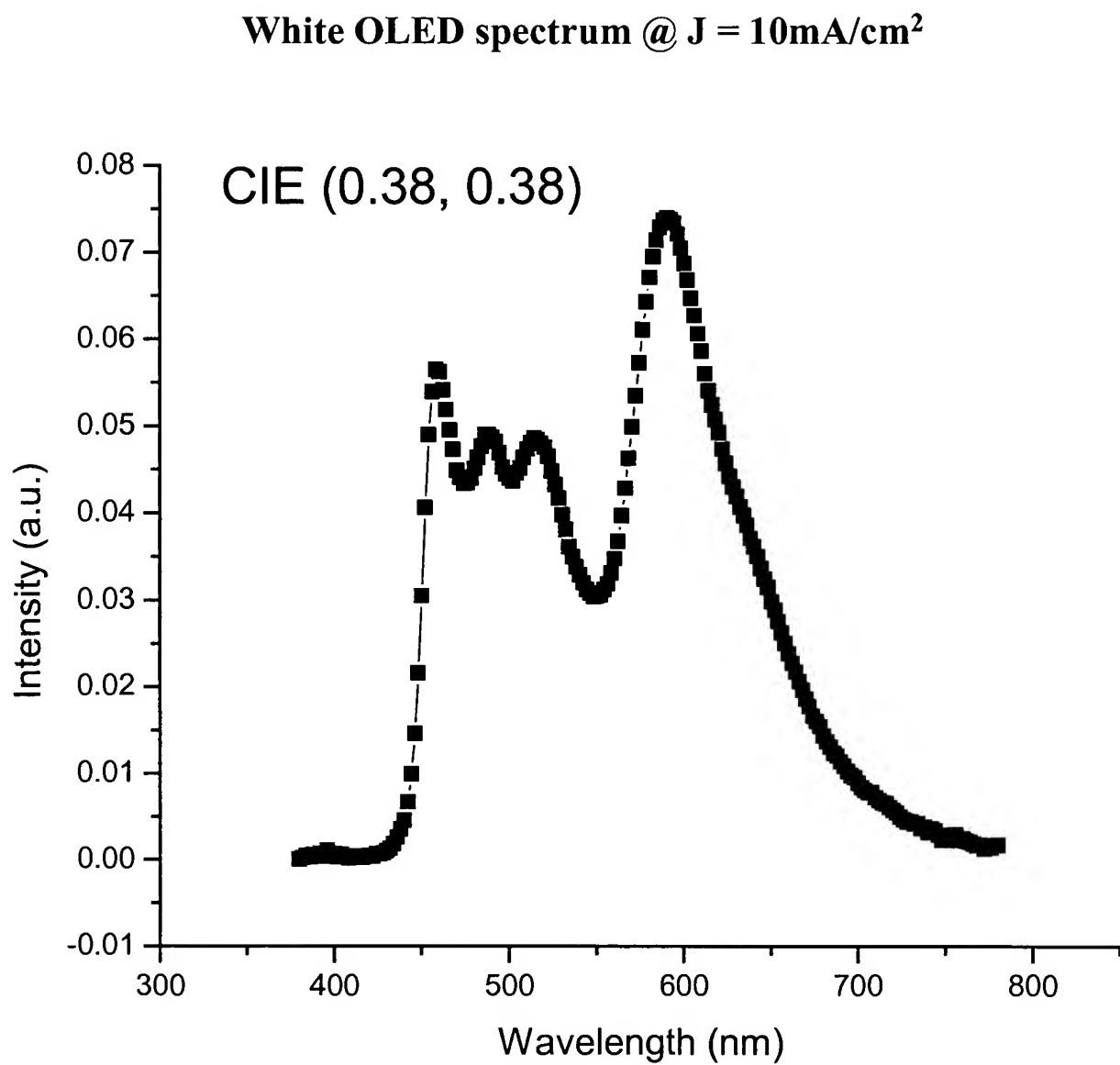


Figure 23

